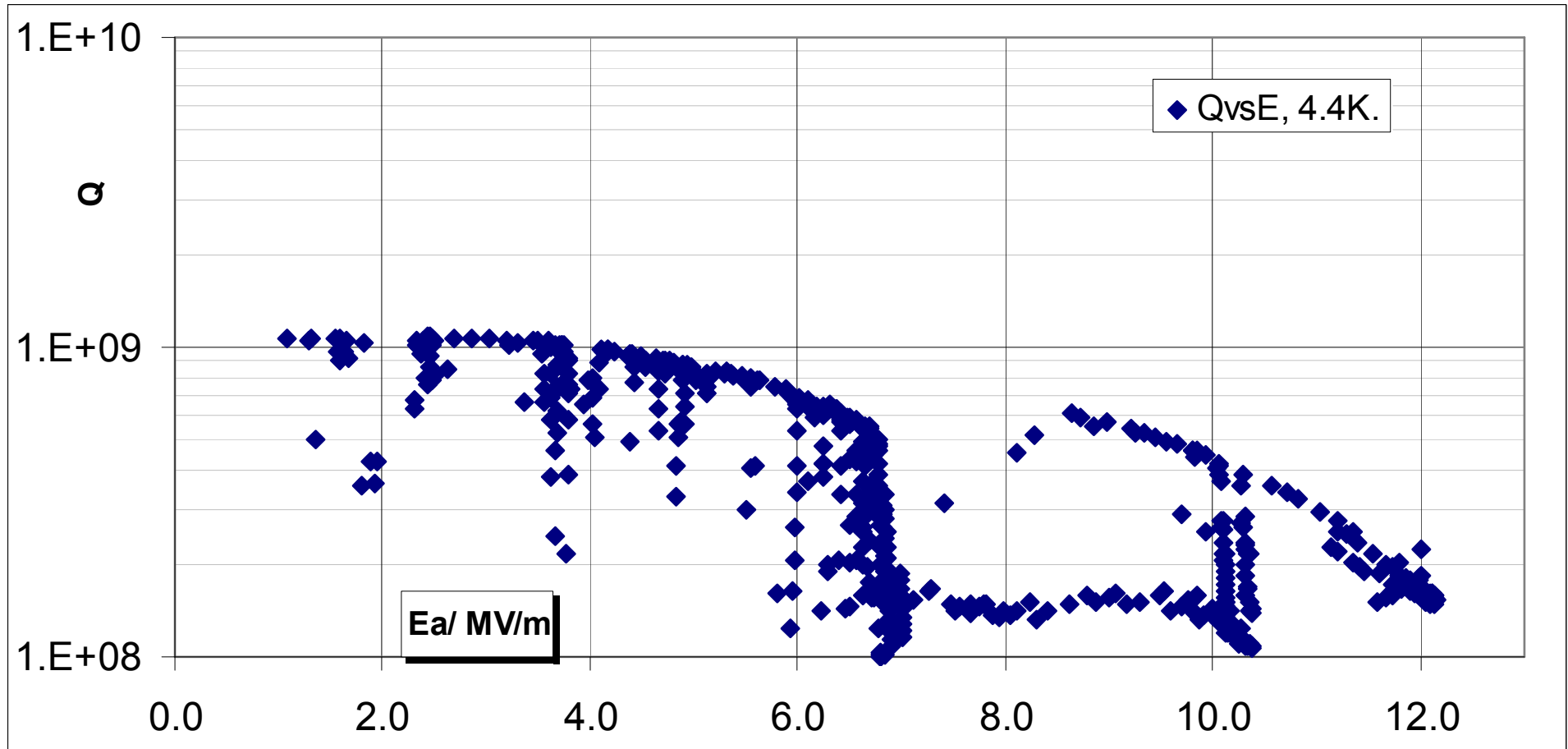
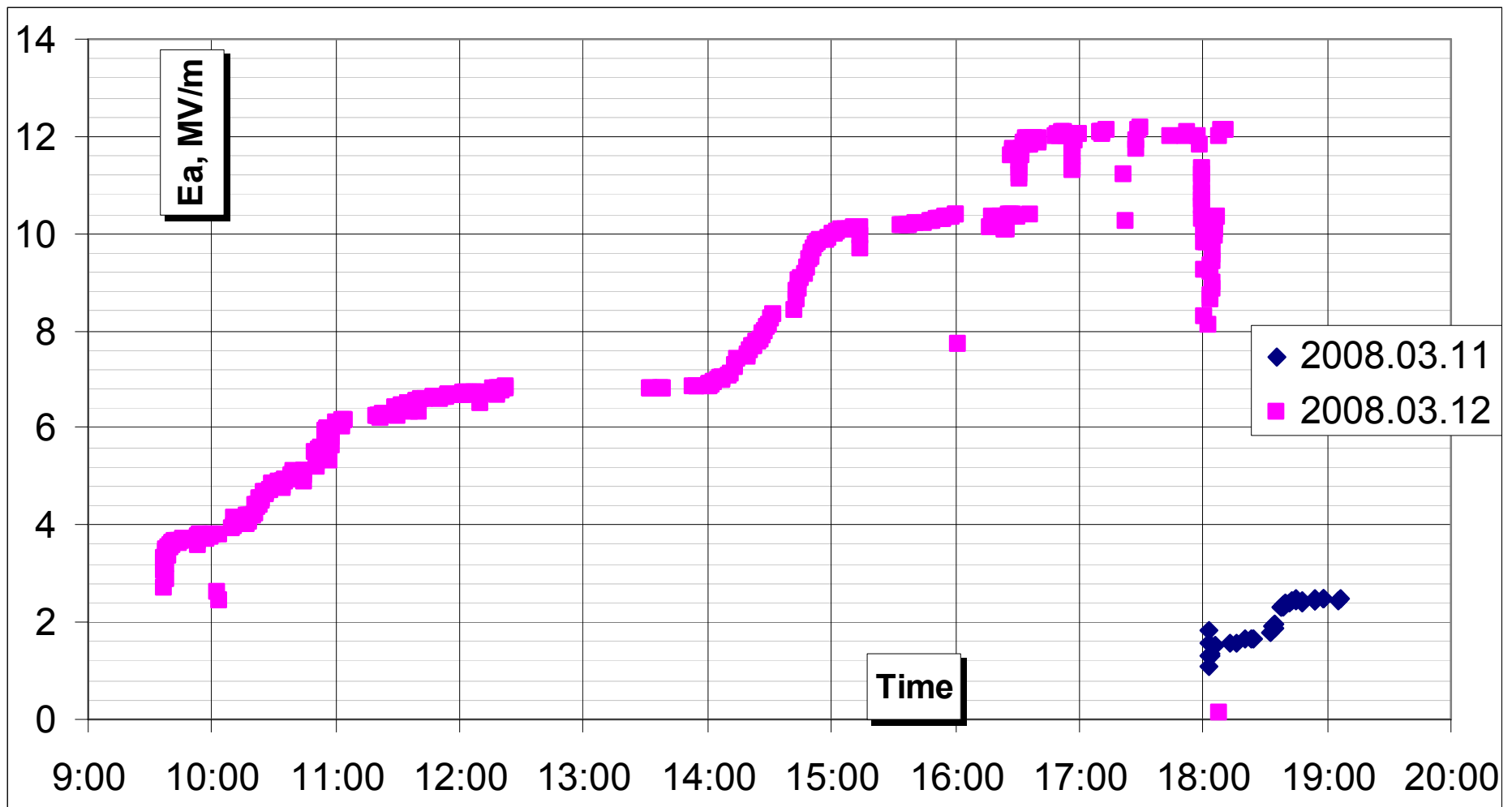


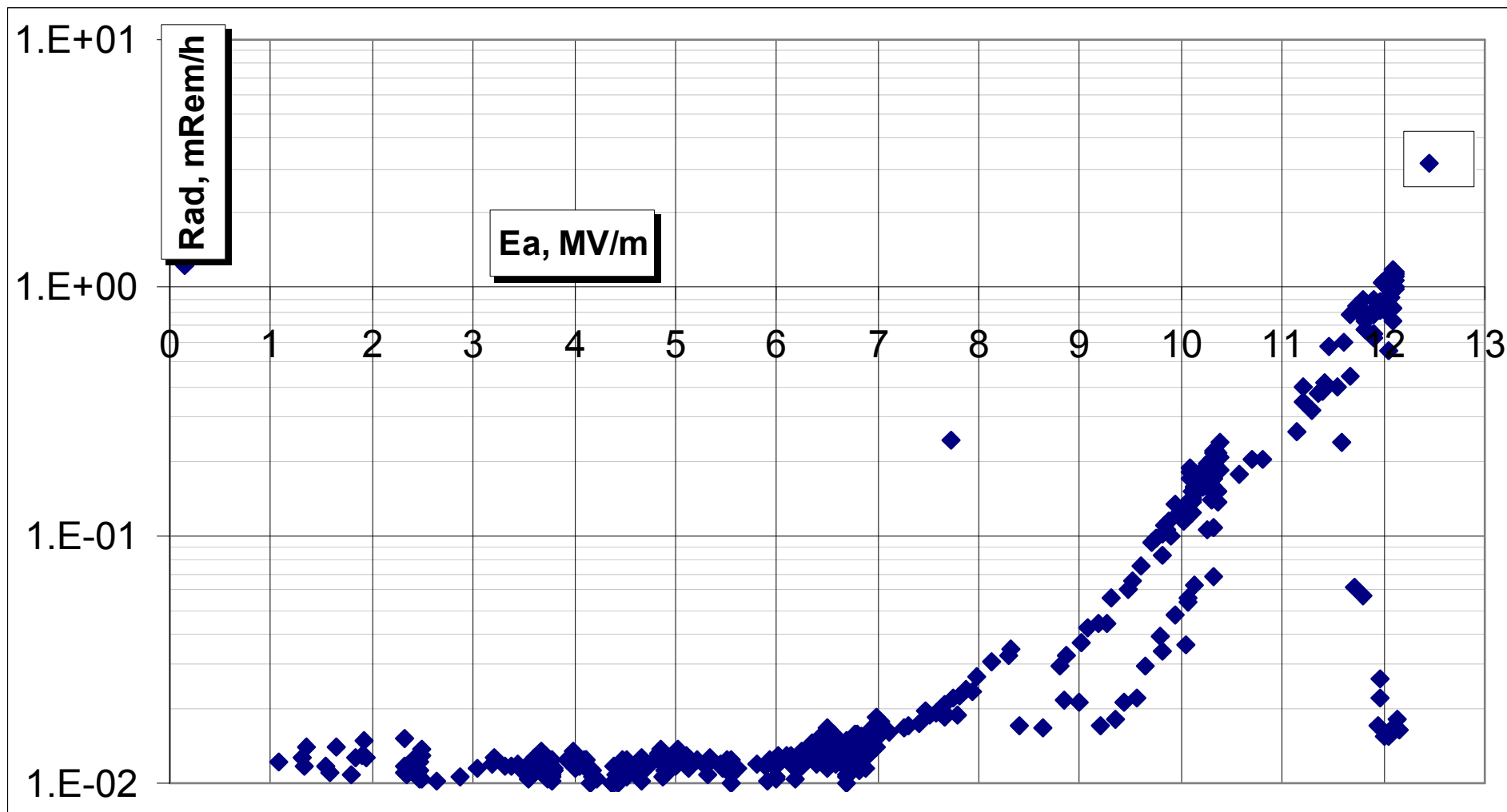
2008.03.12. Cold test of the cavity SSR1-01.  $T=4.4\text{K}$ .



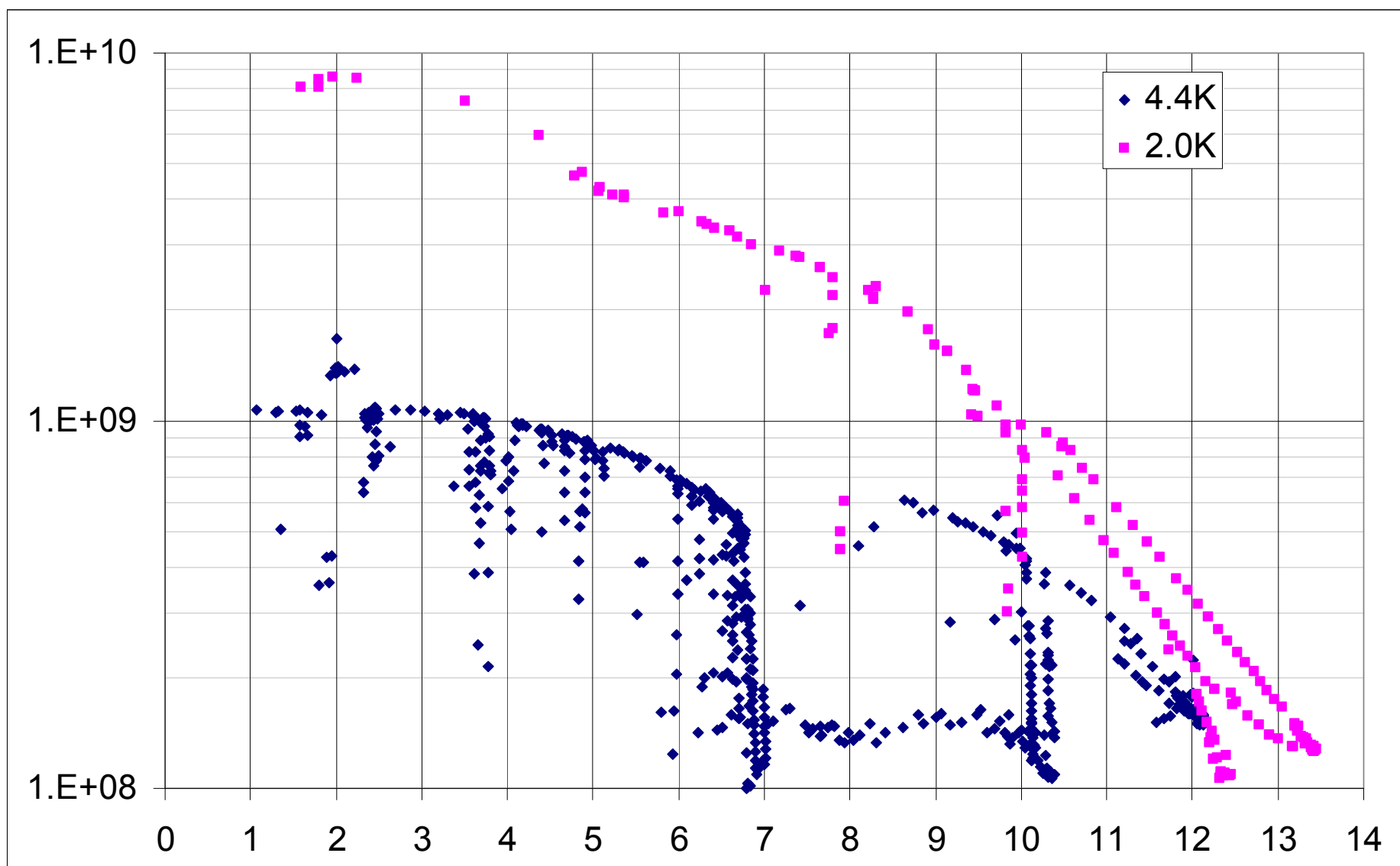
QvsE plot. Many multipacting levels corresponding to accelerating gradient: 1.7, 2.4, 3.7, 3.8, 4.0, 4.4, 4.7, 4.8, 5.1, 5.8, 6.0, 6.2, 6.4, 6.5, 6.7, 6.8, 7-10, 10.1, 10.4, 12.4 MV/m. Most strong at 6.8, 10.1, 10.4, 12.4 MV/m. Later reached level 13.4 MV/m limited by amplifier power (190W).



History of test. In 1<sup>st</sup> day 1 hour spend to teach accelerating gradient  $E_a=2.4$  MV/m limited by multipacting. In 2<sup>nd</sup> day 40 min spend to reach 3.5 MV/m (not shown), 1.5 hour to reach 6 MV/m, 1.5 hours to reach 6.8 MV/m. About 6.7-6.8 3 times  $E_a$  drops to 0.2 MV/m multipactor level. In 1 hour “continuous” multipactor processed from 6.8 MV/m to 10.1 MV/m. 10.1 and 10.4 MV/m multipactor levels passed in 1.5 hours. Last level 12.1 not processed in 2 hours.



Radiation monitor installed on the top of top plate starts to show after 7 MV/m. Radiation slightly drops after passing multipactor.



2008.03.13. 4 hours of work at 2K. Maximum of accelerating gradient reached 13.5MV/m limited by field amplifier power 200 W and field emission.